## IN THE CLAIMS

The status of each claim in the present application is listed below.

Claims 1-37: (Canceled).

38. (New) An amphipathic glycopeptide, the amino acid sequence of which comprises an N- terminal opioid message sequence, a C-terminal helical address sequence, and a linker sequence between the message sequence and the helical address sequence, wherein

the C-terminal helical address sequence has a length of nine amino acids, and at least one of the amino acid residues of the peptide is glycosylated.

- 39. (New, Withdrawn) The glycopeptide of Claim 38, wherein the N-terminal opioid message sequence is Y-t-G-F- or Y-a-G-F-.
- 40. (New, Withdrawn) The glycopeptide of Claim 38, wherein the N-terminal opioid message sequence is Y-t-G-F-L-P-.
- 41. (New, Withdrawn) The glycopeptide of Claim 38, wherein the N-terminal opioid message sequence is Y-t-G-F-L-pA-.
- 42. (New) The glycopeptide of Claim 38, wherein the N-terminal opioid message sequence is Y-t-G-F-L-G-G-.
  - 43. (New) The glycopeptide of Claim 38, which is a glycosylated enkephalin.

- 44. (New) The glycopeptide of Claim 38, which is a glycosylated endorphin.
- 45. (New) The glycopeptide of Claim 38, which adopts a helical conformation in the presence of a lipid bilayer.
- 46. (New) The glycopeptide of Claim 38, which is substantially non-helical in water in the absence of a lipid bilayer.
- 47. (New) The glycopeptide of Claim 38, which is substantially non-helical in water in the absence of a lipid bilayer and adopts a helical conformation in the presence of a lipid bilayer.
- 48. (New) The glycopeptide of Claim 38, wherein one amino acid residue is glycosylated.
- 49. (New) The glycopeptide of Claim 38, wherein two amino acid residues are glycosylated.
- 50. (New) The glycopeptide of Claim 38, which comprises at least one serine residue that is glycosylated.
- 51. (New, Withdrawn) The glycopeptide of Claim 38, which comprises 2 serine residues that are glycosylated.

- 52. (New) The glycopeptide of Claim 38, which is glycosylated with a glycosyl unit having at most 8 saccharide units.
- 53. (New) The glycopeptide of Claim 38, which is glycosylated with a glycosyl unit having at most 4 saccharide units.
- 54. (New) The glycopeptide of Claim 38, which is glycoslated with a glycosyl unit having at most 2 saccharide units.
- 55. (New) The glycopeptide of Claim 38, which is glycoslated with a glycosyl unit having at most 1 saccharide unit.
- 56. (New) The glycopeptide of Claim 38, which contains one serine glucoside residue.
- 57. (New; Withdrawn) The glycopeptide of Claim 38, which contains 2 serine glucoside residues.
- 58. (New) The glycopeptide of Claim 38, which comprises at least 14 amino acid residues.
- 59. (New) The glycopeptide of Claim 38, which comprises at least 15 amino acid residues.

- 60. (New) The glycopeptide of Claim 38, which comprises at least 17 amino acid residues.
- 61. (New) The glycopeptide of Claim 38, which comprises at least 19 amino acid residues.
- 62. (New) The glycopeptide of Claim 38, which comprises at most 60 amino acid residues.
- 63. (New) The glycopeptide of Claim 38, which has at most 5% helicity as measured by circular dichroism in water and at least 10% helicity in the presence of a lipid bilayer.
  - 64. (New) The glycopeptide of Claim 38, which crosses the blood-brain-barrier.
- 65. (New) The glycopeptide of Claim 38, which is selective for at least one receptor selected from the group consisting of the delta opioid receptor, mu opioid receptor and kappa opioid receptor.
- 66. (New) A pharmaceutical composition comprising the glycopeptide of Claim 38 and at least one pharmaceutically acceptable carrier and/or excipient.
- 67. (New) A method of relieving pain, comprising administering an effective amount of the glycopeptide Claim 38 to a subject in need thereof.

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- 68. (New) A method of providing analgesia, comprising administering an effective amount of the glycopeptides of Claim 38 to a subject in need thereof.
- 69. (New) A method of treating anxiety, depression, obesity, anorexia nervosa, phobias, schizophrenia, Parkinson's disease and Alzheimer's disease, comprising administering an effective amount of the glycopeptides of Claim 38 to a subject in need thereof.